Rack-Mount Kit

Installation Instructions

for the Compaq® EVO Workstation W8000

Important Information

Avid recommends that you read all the installation instructions thoroughly *before* installing the Compaq W8000 system into your rack enclosure.

This optional rack-mount kit for the Compaq W8000 system is comprised of the Compaq rack-mount kit and a rack-shelf added to the kit by Avid. Install the rack-mount kit before making any connections to the system. The Compaq W8000 system typically requires five rack units with one additional rack unit for the rack-shelf.

The rack-mount kit includes a new front bezel that secures the Compaq W8000 to your rack enclosure. The new rack-mont bezel does not include the two USB connectors, the microphone jack, and the headphone jack that are in the desktop version of the bezel. These connections are still available on the back of the system.

Although Compaq provides a rack-mount kit for the Compaq W8000, Avid has modified the kit to include a rack-shelf making the kit more universal. This document provides instructions for the Compaq rack-mount kit and the parts added to the kit by Avid.

This procedure requires two people for the complete installation.

Part 0130-05337-01 Rev. B

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Symbols and Conventions

These installation instructions use the following special symbols and conventions:

A note provides important related information, reminders, recommendations, and strong suggestions.

A caution means that a specific action you take could cause harm to your computer or cause you to lose data.

A warning describes an action that could cause you physical harm. Follow the guidelines in the manual or on the unit itself when handling electrical equipment.

Installing the Rack Nuts

Rack nuts are provided in the kit for those rack enclosures that do not have threaded holes. Rack nut clips position the rack nuts at the holes of the rack and are used to secure the rack components in place. Install the rack nuts where the rack-shelf and front bezel will secure to the rack enclosure. If your rack enclosure has threaded holes, skip this procedure.

To attach the rack nuts to the rack enclosure:

1. On the inside of the rail, hook one of the rack nut clips through the desired hole, see Figure 1.
2. Squeeze the nut housing and hook the opposite clip of the rack nut in the hole.

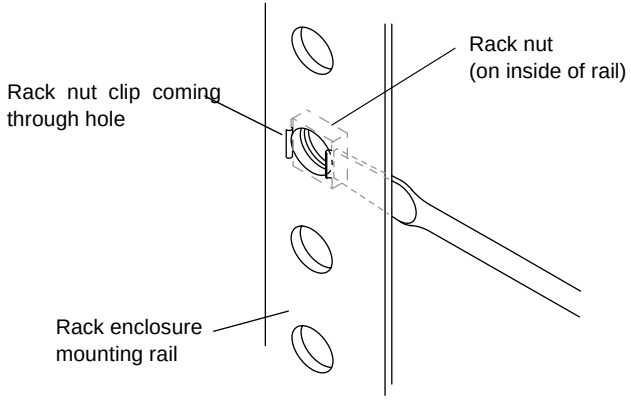

Figure 1 Clipping Rack Nuts onto the Rack Enclosure

Installing the Rack-Shelf

You must first install the rack-shelf in your rack enclosure before you can install the Compaq W8000. The rack-shelf requires one EIA rack unit (1 U), or 1 $^{3}/_{4}$ inches of rack space. Once the shelf is secured in the rack, the Compaq W8000 rests on top of the shelf and is also secured.

To ensure the stability of the rack enclosure, install the rack components in the rack enclosure starting from the bottom.

To attach the rack-shelf to the rack enclosure:

1. Locate the rack-shelf and position the shelf just below where you want to have the Compaq W8000 located in the rack.
2. Select the lowest position in the rack where you can mount the rack-shelf and Compaq W8000. Position the rack-shelf so that the bottom of the shelf is at the baseline of a U-alignment position (see Figure 2).

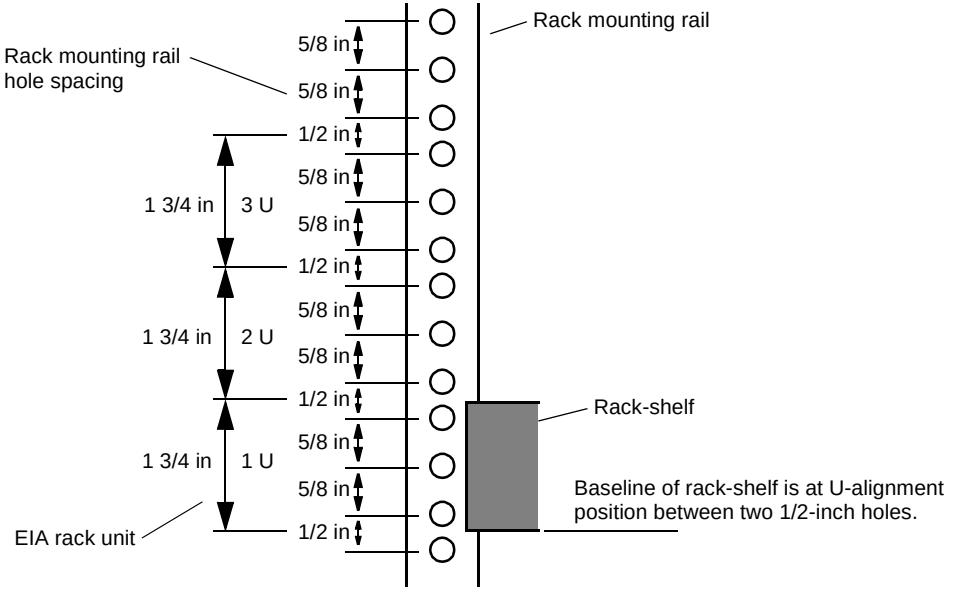

Figure 2 Positioning the Rack-Shelf

You should have someone helping you to hold the shelf while you are securing it.

3. Position the front of the rack-shelf flush against the outside of the front mounting rail. Align the holes in the rack-shelf with the holes in the front mounting rail (see Figure 3).
4. From the front of the rack enclosure, insert the screws (with teflon washers) through the front mounting rail and tighten.

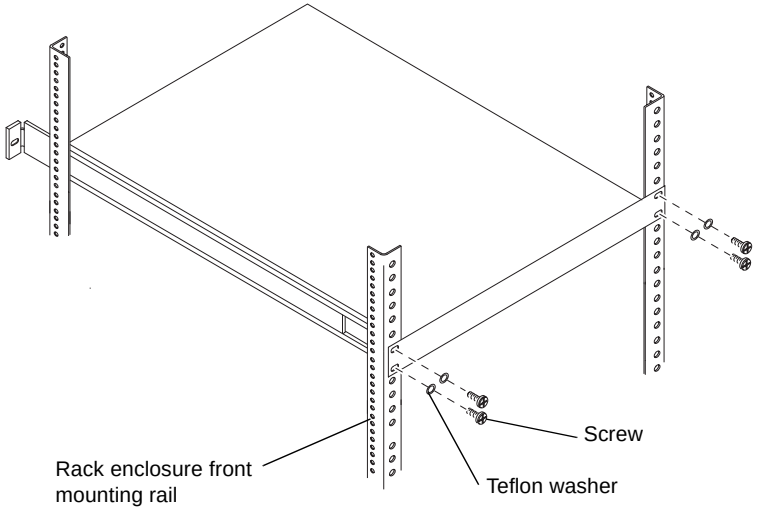

Figure 3 Left Front Slide Bracket

5. Adjust the length of the slide rails on the rack-shelf so they mount on the rear mounting rail of the rack-enclosure (see Figure 4).

6. From the rear of the rack enclosure, insert a screw with teflon washer through the slide rail and tighten the screw to the rear mounting rail.

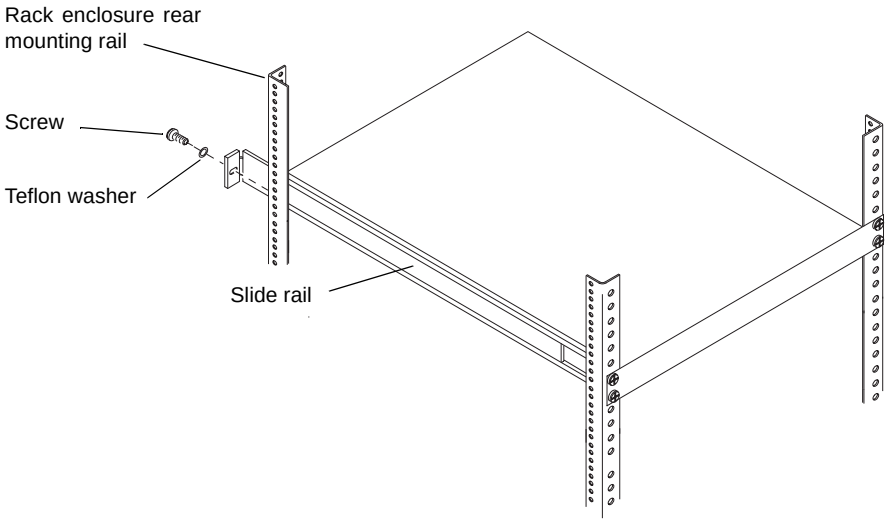

Figure 4 Left Rear Slide Bracket and Adjustment Screws

7. Secure the other side of the rack-shelf by repeating steps 3 to 6.

Installing the Tower-to-Rack Conversion Kit

Avid's instructions for the Compaq Tower-to-Rack Conversion Kit includes information on the components that Avid has added, and excludes steps for Compaq components that are not used by Avid.

Avid systems must use the rack-shelf (see "Installing the Rack-Shelf" on page 4). These instructions have been specifically tailored for Avid systems.

Removing the Side Access Panel

Before removing the access panel, ensure that the Compaq W8000 is turned off, and all cables are disconnected from the back of the system.

To remove the side access panel:

1. Loosen the four rear panel thumbscrews (see Figure 5).
2. Slide the side access panel back, then off.

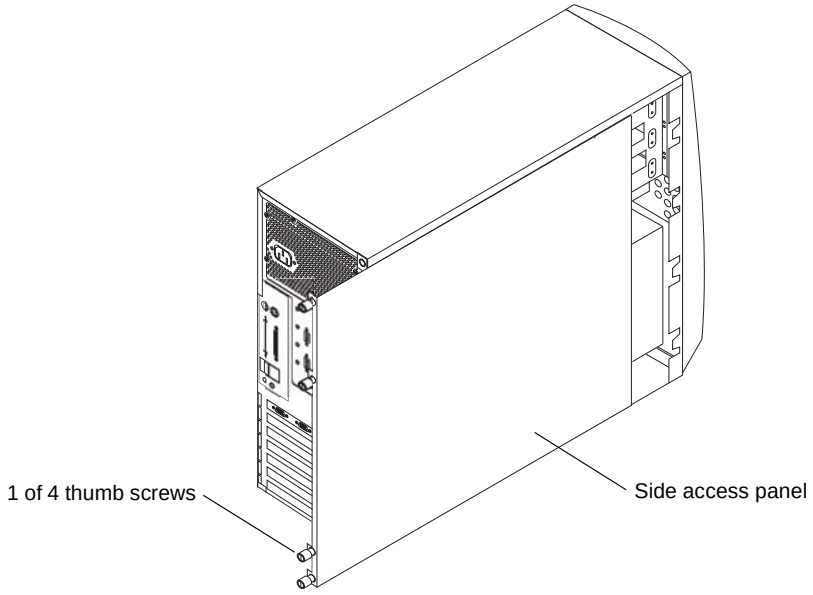

Figure 5 Removing the Side Access Panel

Removing the Front Bezel

To remove the front bezel:

1. Release the two front bezel latches (see Figure 6).
2. Pull the front bezel off the front of the system from the latch side.

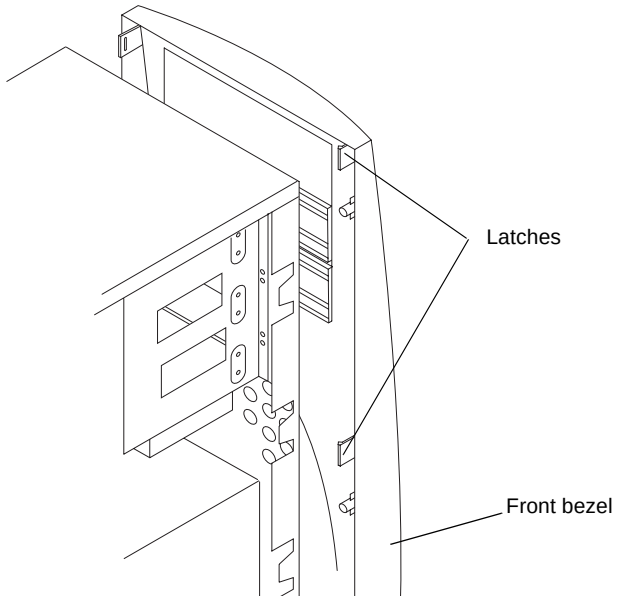

Figure 6 Removing the Front Bezel

Replacing the Diskette Drive

You must replace the existing diskette drive with the diskette drive in the rack-mount kit. The diskette drive in the rack-mount kit provides a longer eject button. The longer button needs to extend beyond the new front bezel.

To remove the diskette drive:

1. Remove the two screws that secure the diskette drive (see Figure 7).
2. Slide the diskette drive out slightly to gain access to the cables.
3. Disconnect the signal and power cables from the back of the diskette drive.

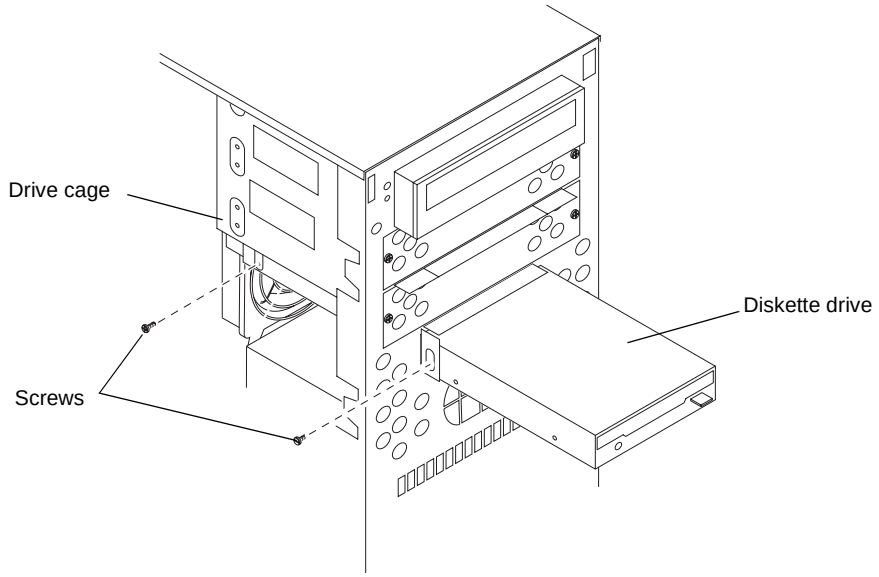

Figure 7 Installing the Rack-Mount Diskette Drive

4. Remove the diskette drive from the drive cage.

To install the rack-mount diskette drive:

1. Insert the new diskette drive that came with the rack-mount kit into the drive cage (see Figure 7).
2. Connect the signal and power cables on the back of the diskette drive.

3. Secure the diskette drive with the screws removed from the original diskette drive.

Use only 5mm-long screws. Longer screws can damage the internal components of the diskette drive. Be sure cables are placed in their original locations during the reassembly process. Improper cable placement can damage the system.

Removing the Front I/O Assembly Module

To remove the front I/O assembly module:

1. Remove the four screws securing the front I/O assembly module to the chassis (see Figure 8).

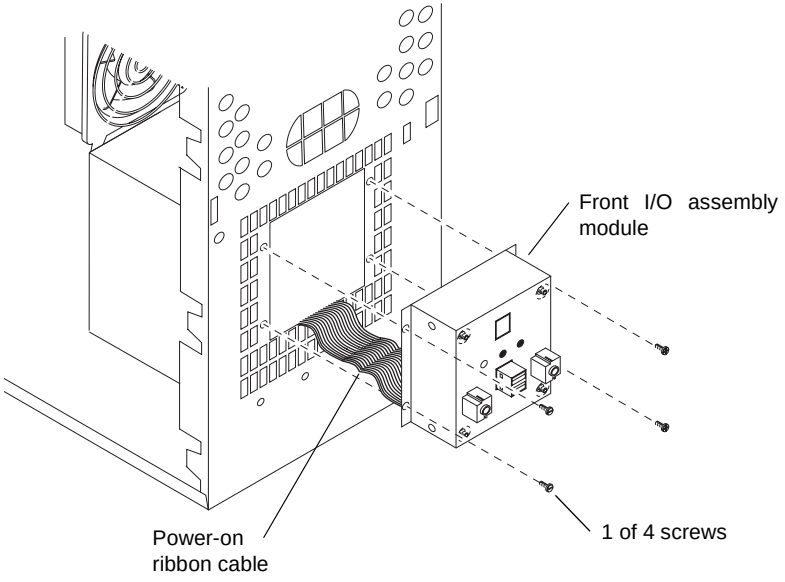

Figure 8 Removing the Front I/O Assembly Module

2. Pull the front I/O assembly slightly out from the chassis to gain access to the I/O board mounted inside the assemble module.
3. Disconnect the power-on ribbon cable from the I/O board.
4. Remove the front I/O assembly module from the chassis.
5. Disconnect the power-on ribbon cable from the system board.

Most Avid systems will have expansion boards and a fan assembly installed that might need to be removed to gain access to the power-on connector on the system board. For instructions on removing the fan assembly and information on your system's expansion board slot configuration, see your Avid Product Setup Guide.

6. Remove the power-on cable from the chassis.

Installing the Rack-Mount Plate

To attach the rack-mount plate:

1. Slide the power switch connector cable through the middle opening on the front of the chassis (see Figure 9).

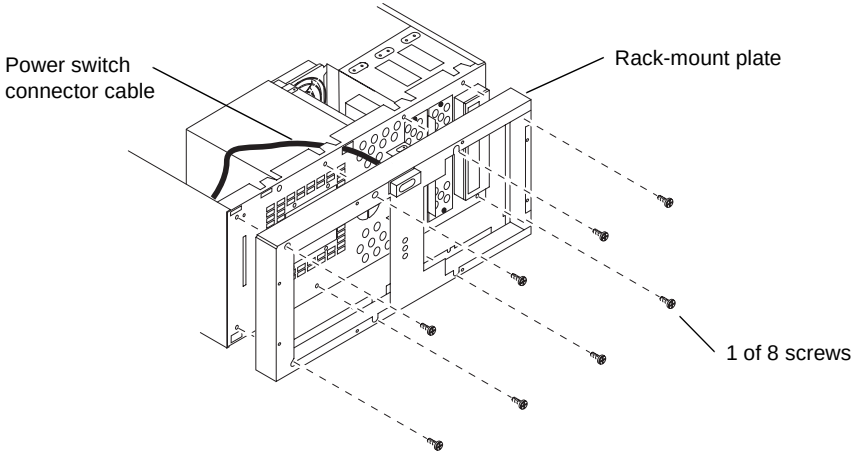

Figure 9 Attaching the Rack-Mount Plate

2. Pull the power switch connector cable through into the chassis to the system board.
3. Connect the power switch connector cable to the system board in the same location where the power-on ribbon cable had been installed.

When routing the cable, keep the cable away from any exposed fans.

4. Install the eight screws to secure the rack-mount plate to the front of the chassis.

Installing the Rack-Mount Front Bezel

To attach rack-mount front bezel:

1. Secure the rack-mount front bezel to the front of the Compaq W8000 with the eight screws provided in the kit (see Figure 10).

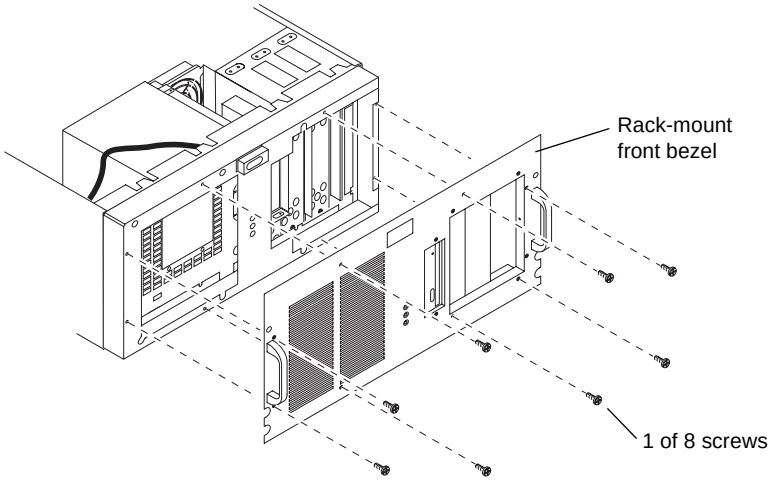

Figure 10 Attaching the Rack-Mount Bezel

2. Reattach the side access panel and secure it using the four rear thumbscrews.

The Compaq W8000 must always be operated with the side access panel on to ensure proper cooling.

Installing the Compaq W8000 into the Rack

The final process is to place and secure the Compaq W8000 system into the rack enclosure.

To reduce the risk of personal injury or damage to the equipment, at least two people are needed to install the Compaq W8000 into a rack safely.

To install the Compaq W8000 system into the rack enclosure:

1. Position the Compaq W8000 system horizontally and place it on the rack-shelf (see Figure 11).
2. Slide the Compaq W8000 system completely into the rack enclosure.

Be sure to keep the Compaq W8000 flat on the rack-shelf when securing it to the rack. Tilting the system could result in damage to the system.

3. Secure the Compaq W8000 system to both front mounting rails with screws and teflon washers. Insert a screw through the rack-mount bezel into the front of the rack enclosure and tighten.

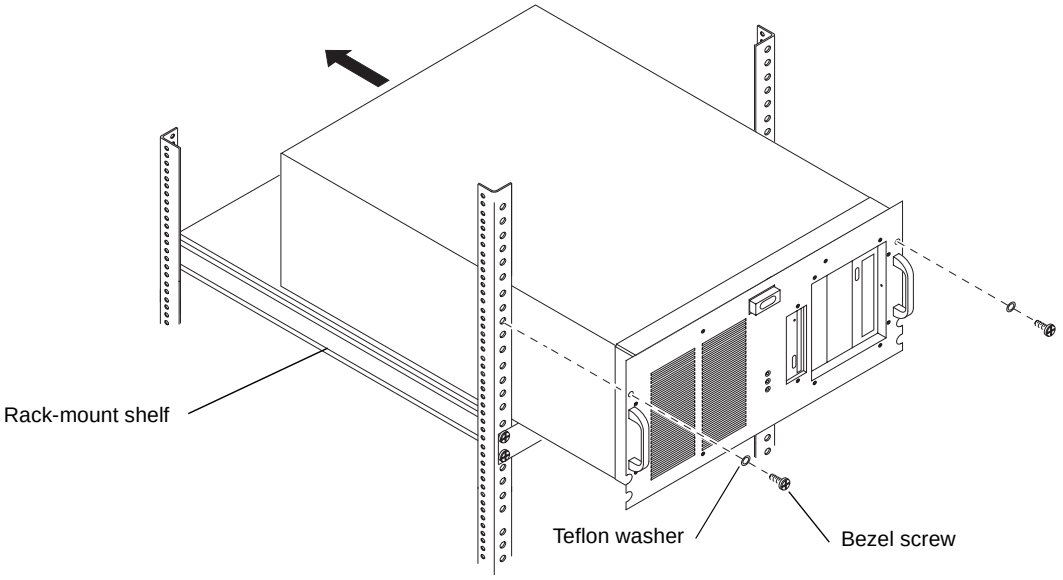

Figure 11 Securing the System in the Rack

This completes the installation if your Compaq W8000 into a rack enclosure. See your Avid product's setup guide for cabling and other setup information.

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